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Claims

- 1. A halogen-free, multilayered heat shrink film comprising (A) a core layer comprising a copolymer of ethylene or propylene with an alpha olefin and the core having an upper and lower surface, (B) a skin layer on the upper surface of the core layer, wherein the skin layer comprises a polyolefin or polyolefin blend and (C) a printable layer on the lower surface of the core layer, wherein the shrinkage of the film is at least about 30%.
- 2. The film of claim 1 wherein (A) is a copolymer of ethylene or propylene and butene or hexene.
- 3. The film of claim 2 wherein the copolymer has a butene content of about 3% to about 20%.
- The film of claim 1 wherein the core layer further comprises an olefin homopolymer.
- 5. The film of claim 4 wherein the olefin homopolymer is propylene or butylene homopolymer.
- 6. The film of claim 1 wherein (B) is polypropylene, polybutene, or a propylene and butene copolymer.
- 7. The film of claim 1 wherein (B) is a polyolefin blend of a polyolefin homopolymer and a copolymer of ethylene or propylene and an alpha-olefin.
- 8. The film of claim 1 wherein (B) is a polyolefin blend of a propylene homopolymer and a copolymer of propylene and an alpha olefin.
- 9. The film of claim 1 wherein (C) is blend of a polyolefin and a soft polar additive.
- 10. The film of claim 9 wherein the polyolefin is an ethylene or propylene homopolymer or a copolymer of ethylene and propylene.

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- 11. A halogen-free, multilayered heat shrink film comprising (A) a core layer comprising a blend of (1) a copolymer of ethylene or propylene with an alpha olefin and (2) a homopolymer of an olefin, and having an upper and lower surface, (B) a skin layer on the upper surface of the core layer, wherein the skin layer comprises a polyolefin homopolymer or a blend of a polyolefin homopolymer and a copolymer of ethylene or propylene and an alpha olefin and (C) a printable layer on the lower surface of the core layer, wherein the printable layer comprises a blend of a polyolefin and a soft polar additive, wherein the shrinkage of the film is at bast about 35%.
- 12. The film of claim 11 wherein the copolymer of (1) is a propylene and butene copolymer.
- 13. The film of claim 11 wherein homopolymer of (2) is a polybutene.
- 14. The film of claim 11 wherein the polyolefin homopolymer is polypropylene or polybutene and the copolymer is a propylene butene copolymer.
- 15. The film of claim 11 wherein the polyolefin is a polypropylene or polyethylene and the soft polar additive is ethylene vinyl acetate.
- 16. An article encapsulated with a multilayer heat shrink film of claim 1.
- 17. A article encapsulated with a multilayer heat shrink film of claim 10.
- 18. The article of claim 16, wherein the article is a battery.
- 19. The article of claim 17, wherein the article is a battery.

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